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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/587,932	06/06/2000	Xin Qiu	18926-002310US	18926-002310US 8876	
20350	7590 04/06/2006		EXAM	INER	
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR			SON, LI	SON, LINH L D	
			ART UNIT	PAPER NUMBER	
SAN FRANCI	SAN FRANCISCO, CA 94111-3834		2135		

DATE MAILED: 04/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/587,932	QIU ET AL.				
Office Action Summary	Examiner	Art Unit				
· ·	Linh LD Son	2135				
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11.	January 2006.					
	is action is non-final.					
,						
. —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,6-9,14-18 and 23-26</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,6-9,14-18 and 23-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement					
Application Papers						
9) The specification is objected to by the Examir	ner					
10) The drawing(s) filed on is/are: a) ac		Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre						
11) The oath or declaration is objected to by the E	* * * * * * * * * * * * * * * * * * * *	•				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bure	·	Č				
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attach mont(s)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔛 Interview Summar Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date	6) [Other:					

Application/Control Number: 09/587,932

Art Unit: 2135

DETAILED ACTION

- 1. This Office Action is responding to the Amendment received on 01/11/2006.
- 2. Claims 1-4, 6-9, and 14-18, and 23-26 are pending.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 23, and 25-26, are rejected under 35 U.S.C. 102(e) as being anticipated by Milsted.
- **5.** As per claim 23:

Milsted discloses "A method of providing encrypted data, method comprising: providing a first set of services comprised of a first number of services; encrypting at least one of services from first set of services at a first level-of-encryption; combining the first set of services into a first data stream; transmitting said first data stream; storing a first set of

decryption keys associated with said first-level-of-encryption, said first set of keys corresponding to the decryption algorithm for the first-level-of-encryption" in (See the Abstract, Col 2 lines 24-33, Col 11 lines 55-65, Col 14 lines 15-40, Col 15 lines 34-45, Col 18 lines 10-65, and Col 27 lines 42-65); "providing a second set of services comprised of a second number services different from the first number of services; encrypting at least one of services from second set of services with an encryption algorithm different from first-level-of-encryption; combining the second set of services into a second data stream; transmitting said second data stream; storing a second set of decryption keys associated with second-level-of-encryption in integrated circuit in set-top box" in (See the Abstract, Col 2 lines 24-33, Col 11 lines 55-65, Col 14 lines 15-40, Col 15 lines 34-45, Col 18 lines 10-65, and Col 27 lines 42-65).

6. As per claim 25:

Milsted discloses "The method of claim 24 wherein the first set of decryption data comprises at least one decryption key" in (Col 27 lines 42-65).

7. As per claim 26:

Milsted discloses "The method of claim 24 wherein the second set of decryption data comprises at least one decryption key" in (Col 27 lines 42-65).

Application/Control Number: 09/587,932 Page 4

Art Unit: 2135

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1-4, 6-9, and 14-18, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Milsted et al, US Patent No 6263313, hereinafter "Milsted". (Cited in US PTO 892 dated 08/11/05).

10. As per claims 1 and 24:

Milsted discloses "A method of providing data, the method comprising: storing a first set of encryption data associated with a first data stream wherein the first data stream includes a first number of services; encrypting the first data stream having a first-level-of-encryption; sending the first data stream to a destination device for decryption" in (Col 2 lines 24-33, Col 11 lines 55-65, Col 14 lines 15-40, Col 15 lines 34-45, Col 18 lines 10-65, and Col 27 lines 42-65); "storing a second set of encryption data associated with a second data stream wherein the second data stream includes a second number of services that is different from the first number of services; encrypting the second data stream having a second-level-of-encryption, the first-level-of-encryption being different from the second-level-of-encryption; utilizing a

common memory to encrypt said the first data stream at first-level of encryption and to encrypt the second data stream at the second-level-of encryption; and sending the second data stream to the destination device for decryption" in (Col 2 lines 24-33, Col 11 lines 55-65, Col 14 lines 15-40, Col 15 lines 34-45, Col 18 lines 10-65, and Col 27 lines 42-65). However, Milsted is not explicitly disclosed the second –level-of-encryption is associated with a second number of services. Nevertheless, Milsted discloses a method of encrypting the data selectively from a group of encryption algorithm in (See Abstract, Col 15 lines 34-45, and Col 27 lines 42-65). Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify the invention to encrypt a particular group of data using a particular encryption algorithm with the motivation of simplifying the encryption method and could reduce the processing power if chosen a less sophisticate algorithm.

11. As per claim 2:

Milsted discloses "The method of claim 1 wherein the first set of encryption data comprises at least one encryption key" in (Col 27 lines 42-65).

12. As per claim 3:

Milsted discloses "The method of claim 1 wherein the destination device comprises a set-top box" in (Col 14 lines 15-40).

Application/Control Number: 09/587,932

Art Unit: 2135

13. As per claim 4:

Milsted discloses "The method of claim 3 further comprising storing a plurality of decryption algorithms at the set-top box" in (Col 4 lines 35-45, and Col 10 lines 29-40).

Page 6

14. As per claim 6:

Milsted discloses "The method in claim 1 wherein said first-level of encryption utilizes the Data Encryption Standard" in (Col 15 lines 34-45), said second-level-of encryption utilizes an encryption algorithm different from said Data Encryption Standard in (Col 15 lines 34-45).

15. As per claim 7:

Milsted discloses "The method of claim 1 further comprising: decrypting the first data stream at the set-top box; and decrypting the second data stream at the set-top box" in (Col 15 lines 34-45, and Col 27 lines 42-65).

16. As per claim 8:

Milsted discloses, "The method of claim 1 and further comprising storing a portion of the first set of encryption data in a RAM" in (Col 15 lines 45-55).

Application/Control Number: 09/587,932 Page 7

Art Unit: 2135

17. As per claim 9:

Milsted discloses "The method of claim 1 end further comprising storing a portion of the first set of encryption data in a register of a microprocessor" in (Col 15 lines 45-55).

1. As per claim 14:

Milsted discloses "A method of allocating resources comprising: allocating a memory with a first set of decryption data corresponding to a first level-of-encryption; receiving via from an originating source a first data stream having the first level-of-encryption and a first number of services" in Col 83 lines 45-55); "re-allocating the memory with a second set of decryption data corresponding to a second-level-of-encryption the second-level-of-encryption being different from the first-level-of-encryption the second-level-of-encryption being different from the first-level-of-encryption of the first data stream; receiving from the originating source a second data stream having the second-level-of-encryption and a second number of services different from the first number of services; and storing in memory said first set of decryption data corresponding to a first level of encryption and second set of decryption data corresponding to said second level of encryption" in (Col 2 lines 24-33, Col 11 lines 55-65, Col 14 lines 15-40, Col 15 lines 34-45, Col 18 lines 10-65, Col 27 lines 42-65, and Col 83 lines 45-55).

However, Milsted is not explicitly disclosed the second –level-of-encryption is associated with a second number of services.

Nevertheless, Milsted discloses a method of encrypting the data selectively from a group of encryption algorithm in (See Abstract, Col 15 lines 34-45, and Col 27 lines 42-65).

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify the invention to encrypt a particular group of data using a particular encryption algorithm with the motivation of simplifying the encryption method and could reduce the processing power if chosen a less sophisticate algorithm.

18. As per claim 15:

Milsted discloses "The method of claim 14 and further comprising detecting that the second-level-of-encryption of the second data stream is different from the first-level-of-encryption of the first data stream" in (Col 2 lines 24-33, Col 11 lines 55-65, Col 14 lines 15-40, Col 15 lines 34-45, Col 18 lines 10-65, and Col 27 lines 42-65).

19. As per claims 16 and 17:

Milsted discloses "the method as described in claim 14 wherein said allocating a memory with a first set of decryption data corresponding to said first-level-of-encryption comprises storing decryption key data; said memory with a second set of decryption data corresponding to said second-level-of encryption comprises storing decryption key

data" in (Col 2 lines 24-33, Col 11 lines 55-65, Col 14 lines 15-40, Col 15 lines 34-45, Col 18 lines 10-65, and Col 27 lines 42-65).

20. As per claim 18:

Milsted discloses "the method as described in claim 14 wherein said first data stream is comprised of a plurality of different services, each service encrypted at the same level of encryption" in (Col 2 lines 24-33, Col 11 lines 55-65, Col 14 lines 15-40, Col 15 lines 34-45, Col 18 lines 10-65, and Col 27 lines 42-65).

Response to Arguments

- 21. Applicant's arguments with respect to claim s 1-4, 6-9, and 14-18, and 23-26 have been considered but are moot in view of the new ground(s) of rejection. See above.
- 22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh LD Son whose telephone number is 571-272-3856. The examiner can normally be reached on 9-6 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh LD Son Examiner Art Unit 2135

HOSUK SONG PRIMARY EXAMINER